



FortiAP 28C

QuickStart Guide



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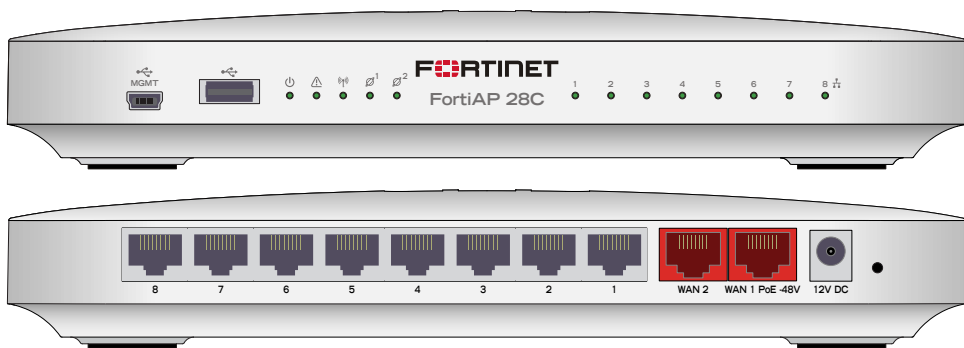
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Package Contents

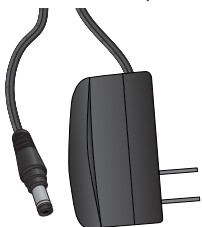
Fortinet's FortiAP wireless thin access points deliver secure, identity-driven WiFi client access that creates a fortified WLAN network that is centrally managed by a FortiGate or FortiWiFi platform.

Your box contains the following:

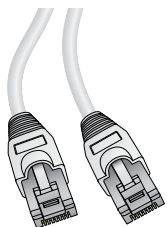
- FortiAP 28C
- Product Documentation (with Mounting Template)
- Power Adapter
- USB Cable
- Ethernet Cable
- T-Rail Mounting Kit
- Wall/Ceiling Mounting Kit



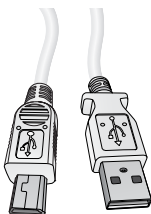
Power Adapter



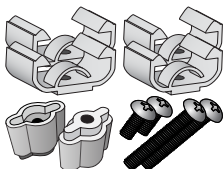
Ethernet Cable



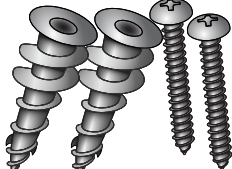
USB Cable



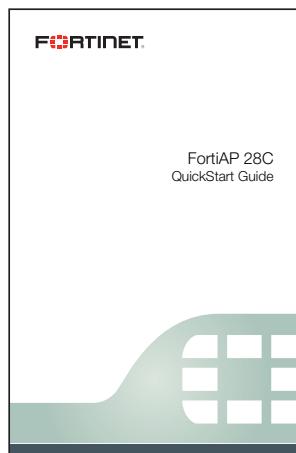
T-Rail
Mounting Kit



Wall/Ceiling
Mounting Kit



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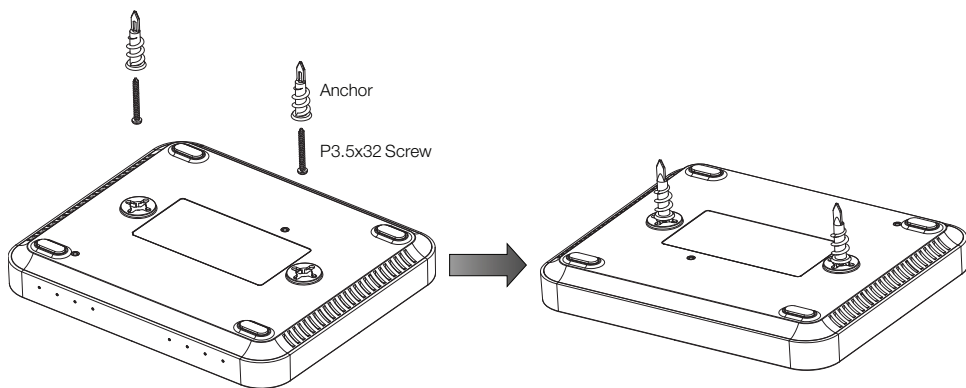
Note: Accessories may not be exactly as shown.

Mounting Your FortiAP Unit

Using the provided hardware, the FortiAP unit can be attached to a ceiling or wall.

To attach the unit to a wall or ceiling:

1. Select an appropriate location and, using the mounting template included in this guide, mark the location on the wall or ceiling where the anchors will be located.
2. Screw the provided anchors into the wall or ceiling in the marked locations. If necessary, drill holes into the wall or ceiling with an appropriately sized drill bit prior to inserting the anchors.
3. Screw the provided P3.5x32 screws into the two anchors, leaving enough of the screws exposed to ensure that the unit can be mounted on them.
4. Mount the FortiAP unit onto the screws and ensure that it is mounted securely.
5. Use the Kensington security slot to attach a cable lock (cable lock is not included) to protect your FortiAP device from unauthorized removal. You can now proceed with connecting your FortiAP unit.

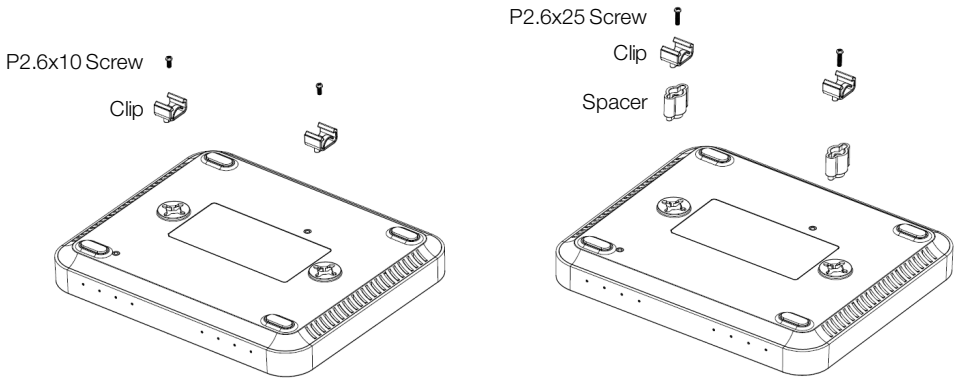


To attach the unit to a ceiling using the provided T-rail connectors:

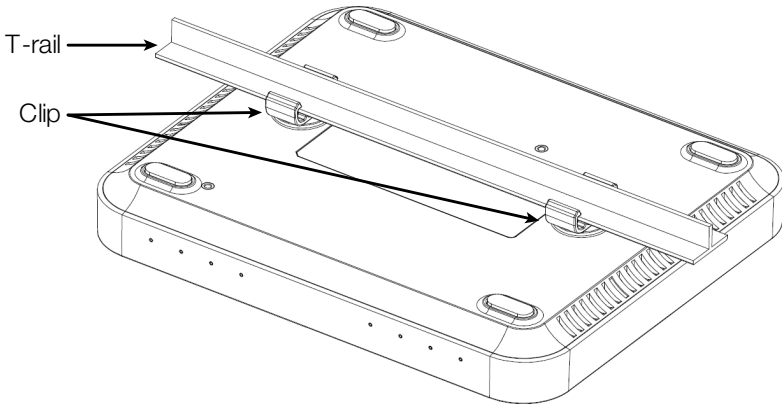
1. Attach the T-rail connectors to the bottom cover of the FortiAP unit using the provided P2.6x10 screws.

Two sizes of T-rail connectors are included in the mounting hardware kit: 15/16in (2.38cm) and 9/16in (1.43cm).

If extra space is required to accommodate drop ceiling tiles, use the provided spacers and P2.6x25 screws.



2. Line up the connected T-rail connectors with an appropriately sized rail and press the unit onto the rail until it snaps into place.



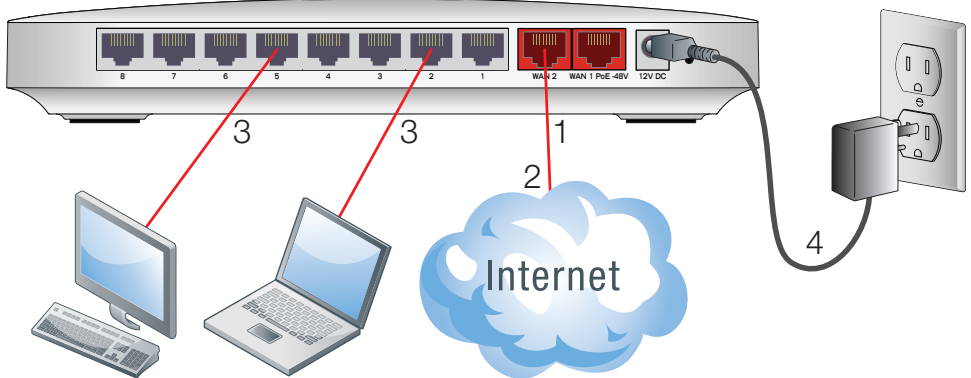
3. Use the Kensington security slot to attach a cable lock (cable lock is not included) to protect your FortiAP device.
You can now proceed with connecting your FortiAP unit.

Connecting Your FortiAP Unit

To connect the FortiAP unit:

1. Insert the provided Ethernet cable into the WAN 1 (for PoE) or WAN 2 port on the FortiAP unit.
2. Insert the other end of the Ethernet cable into your FortiGate or FortiWifi unit, or into the AP/Bridge port on your PoE adapter.
3. Connect an Ethernet cable to each computer you wish to connect to the FortiAP unit.
4. If you are not using PoE, connect the DC plug of the power adapter into the DC power jack on the FortiAP unit, and then insert the other end into an appropriate power outlet.

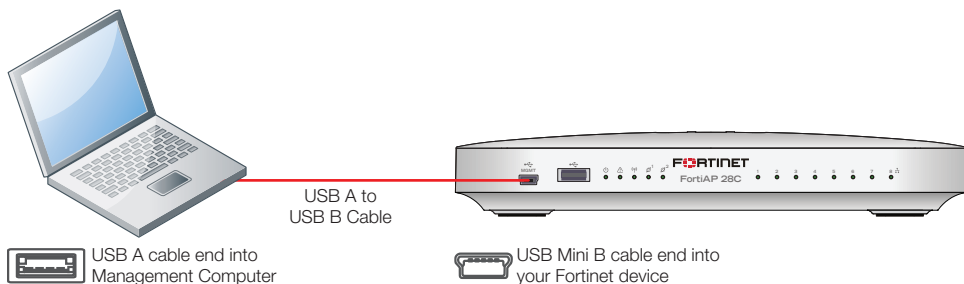
The Power LED will light up.



FortiExplorer

FortiExplorer provides a user-friendly tool that you can use to configure a FortiAP unit over a standard USB connection, rather than using a console cable or Ethernet connection.

Caution: Do not connect the USB cable until after FortiExplorer has been installed.



Note: When using FortiExplorer for the first time, ensure the FortiAP unit is using its factory default settings.

Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, 7, and 8. It is also available for Mac OS X Snow Leopard and higher.

Microsoft Windows Install

1. Extract the downloaded ZIP file then double-click the .msi, or .exe file and follow the instructions on-screen.
2. Connect the USB cable to the FortiAP unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select *Install the hardware automatically* and select *Next*.
4. After a moment, FortiExplorer will launch.

Mac OS Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiAP unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiAP unit, depending on your level of comfort with various interfaces.

Updating FortiExplorer and Firmware

FortiExplorer may be automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiAP unit. To check for new firmware, select the FortiAP unit from the device list and select *Check for New Firmware*. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

Configuring Your FortiAP Unit

The FortiAP unit is designed to require no configuration in most networks. Zero Configuration mode works if the unit is directly connected to the FortiGate or FortiWifi performing the Wireless LAN Controller (WLC) functions, or on the same layer-2 network and subnet as the FortiGate or FortiWifi unit.

If the FortiAP wireless controller's IP address cannot be determined using Zero Configuration mode, or if the network uses static IP addresses, it can be configured to use a static IP address.


To enable the FortiAP using Zero Configuration:

1. After connecting the FortiAP unit as described in the previous chapter, the unit goes through its boot procedure and requests an IP address from the DHCP server.
2. If the IP address is retrieved successfully, the FortiAP enters discovery mode to locate a FortiGate or FortiWifi wireless controller. The discovery modes are Broadcast, Multicast, and DHCP option 138.
3. Verify that the FortiAP has successfully connected to the controller. In the FortiGate Web-based Manager, go to *WiFi Controller > Managed Access Points > Managed FortiAP*. A successfully discovered unit displays an orange circle with a question mark.
4. Select the access point and click *Edit*.
5. In the *State* field, select *Authorize*.
6. In the *AP Profile* field, select *Change*, then select a profile from the list and click *OK*.
The configuration is downloaded from the wireless controller to the FortiAP and the WiFi LED lights up.

To enable the FortiAP with a static IP address:


1. Connect the FortiAP device to a separate, private switch or hub, or directly connect it to your management computer via a cross-over cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiAP unit:
 - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
 - b. Change the IP address of the management computer to 192.168.1.3 and the netmask to 255.255.255.0.

- To access the unit's Web-based Manager, start a browser of your choice and browse to `http://192.168.1.2`.
- Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.
- In the *Network Configuration* section of the *System Information* tab:
 - Set *Address Mode* to *Static*,
 - Enter the FortiAP unit's IP address in the *Local IP Address* field,
 - Enter `255.255.255.0` in the *Local Network Mask* field, and
 - Enter the gateway IP address in the *Gateway IP* field.


Network Configuration

| | |
|-----------------------|---|
| Address Mode | <input checked="" type="radio"/> Static <input type="radio"/> DHCP |
| Local IP Address | <input type="text" value="192.168.1.2"/> |
| Local Network Mask | <input type="text" value="255.255.255.0"/> |
| Gateway IP | <input type="text" value="192.168.1.1"/> |
| Administrative Access | <input checked="" type="checkbox"/> HTTP <input checked="" type="checkbox"/> TELNET |

- In the *WTP Configuration* section, set *AC Discovery Type* to *Static* and enter the FortiGate wireless controller's IP address in the *AC IP Address 1* field.

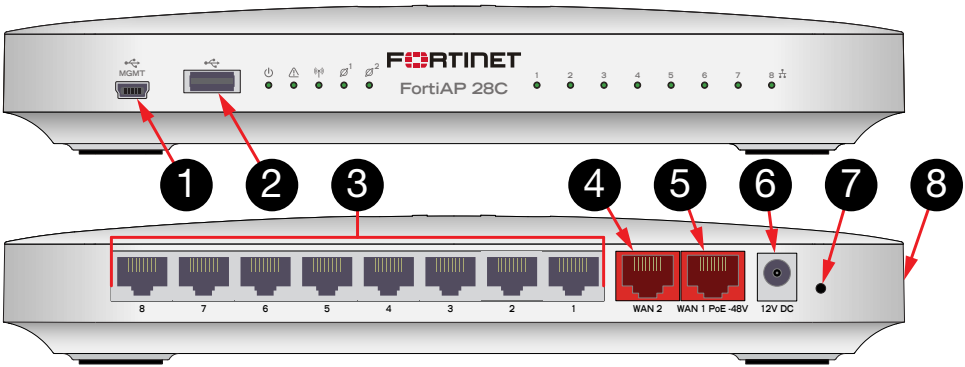

WTP Configuration

| | |
|--------------------------|---|
| AC Discovery Type | <input type="radio"/> Auto <input checked="" type="radio"/> Static <input type="radio"/> DHCP <input type="radio"/> DNS <input type="radio"/> Broadcast <input type="radio"/> Multicast |
| AC Control Port | <input type="text" value="5246"/> |
| AC IP Address 1 | <input type="text" value="192.168.1.1"/> |
| AC IP Address 2 | <input type="text"/> |
| AC IP Address 3 | <input type="text"/> |
| AC Data Channel Security | <input type="radio"/> Clear Text <input type="radio"/> DTLS Enabled <input checked="" type="radio"/> Clear Text or DTLS Enabled |

- Apply the configuration by selecting *Apply*.
- Move the FortiAP to the intended deployment location and connect the Ethernet cable as described in the *Connecting* chapter.
- Log in to the FortiGate controller Web-based Manager, and go to *WiFi Controller > Managed Access Points > Managed FortiAP*.
A successfully discovered unit displays an orange circle with a question mark in the *Status* column.
- Select the access point and click *Edit*.
- In the *State* field, select *Authorize*.
- In the *Edit FortiAP* dialog box, select *Enable Wireless Radio*. Leave the remaining settings at their default values. The configuration is downloaded from the FortiGate unit to the FortiAP device.

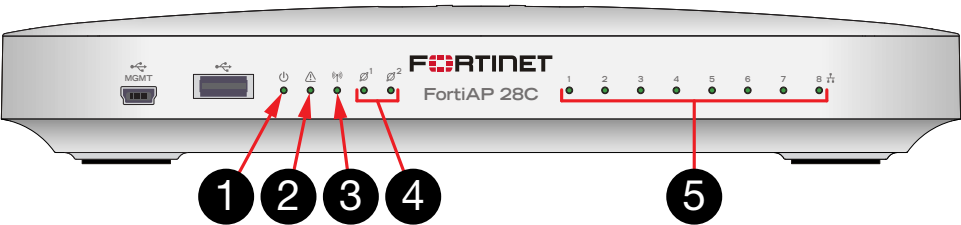
For more information, see the *Deploying Wireless Networks Guide*, available on Fortinet's technical documentation website, <http://docs.fortinet.com>.

Technical Specifications



| # | Interface | Type | Description |
|---|--------------------------|------------|---|
| 1 | USB MGMT | USB mini-B | USB client port for management. |
| 2 | USB | USB-A | USB server port for USB key, modem, or management functions. A second USB-A port is also available on the left side of the unit. |
| 3 | Ethernet Ports 1 - 8 | RJ-45 | Gigabit Ethernet 8-port switch connection for the internal network. |
| 4 | WAN 2 | RJ-45 | Gigabit Ethernet Internet connection. |
| 5 | WAN1 | RJ-45 | Gigabit Ethernet Internet connection with PoE PD support. |
| 6 | Power Connection | | 12V DC, 2.0A 100-240V AC, 50-60Hz adapter |
| 7 | Reset Button | | Resets the FortiAP unit. |
| 8 | Kensington Security Slot | | Anti-theft security slot for attaching a lock-and-cable apparatus. Located on the left side of the unit. |

LED Specifications



| # | LED | State | Description |
|---|----------------------|----------------|----------------------------------|
| 1 | Power | Green | The unit is on. |
| | | Off | The unit is off. |
| 2 | Status | Green | The unit is running normally. |
| | | Flashing Green | The unit is booting. |
| | | Amber | The unit has a fault. |
| 3 | WiFi | Green | Wireless radio is active. |
| | | Off | Wireless interface is down. |
| 4 | WAN 1 & 2 | Green | Port is connected at 1Gbps. |
| | | Amber | Port is connected at 10/100Mbps. |
| | | Flashing Green | Link activity at 1Gbps. |
| | | Flashing Amber | Link activity at 10/100Mbps. |
| | | Off | No link established. |
| 5 | Ethernet Ports 1 - 8 | Green | Port is connected at 1Gbps. |
| | | Amber | Port is connected at 10/100Mbps. |
| | | Flashing Green | Link activity at 1Gbps. |
| | | Flashing Amber | Link activity at 10/100Mbps. |
| | | Off | No link established. |

Cautions and Warnings

Please review the following cautions and warnings.

Environmental and mounting specifications

Operating temperature: 0 - 40°C (32 - 104°F)

Storage temperature: -25 - 70°C (-13 - 158°F)

Humidity: 20 to 90% non-condensing

Altitude: <2250m (7400ft)

Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (B) / NMB-3 (B)

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 21 cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement: Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

European Conformity (CE) - EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

CE 0560 Ⓢ

Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

Caution: For devices that contain a battery, risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

Caution: This equipment is to be connected only to PoE networks without routing to the outside plant.

Documentation and Links

The following Fortinet web pages provide information and resources for your Fortinet product:

1. **Customer Service & Support:** <https://support.fortinet.com>
On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.
2. **Technical Documentation:** <http://docs.fortinet.com>
This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products.
3. **Knowledge Base:** <http://kb.fortinet.com>
This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations , FAQs, technical notes, and more.
4. **Technical Discussion Forums:** <https://support.fortinet.com/forum>
This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.
5. **Training Services:** <http://training.fortinet.com>
This page provides course descriptions, availability, schedules, and locations of training programs in your area.
6. **FortiGuard Threat Research and Response:** <http://www.fortiguard.com>
This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Tools and Documentation CD

The tools and documents on this CD are current as of shipping time.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

Register Your Product

If you did not register your Fortinet product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it.

However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (kernel, compiler, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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215mm (8.4646 inch)

130mm (5.118 inch)

FortiAP 28C
Mounting Template

